

**Trade name:** Funguran progress**Product no.:** SPU 063 C1646 UK**Current version :** 1.0.1, issued: 13.05.2020**Replaced version:** 1.0.0, issued: 05.03.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**Funguran progress****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Fungicide

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Europe B.V. - United Kingdom

Suite 5, 3 Riverside

Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk

**Advice on Safety Data Sheet**

certis@certiseurope.co.uk

**1.4 Emergency telephone number**

Carechem 24 GB: +44 870 190 6777

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 1; H410

Eye Irrit. 2; H319

Acute Tox. 4; H332

Aquatic Acute 1; H400

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS09

**Signal word**

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Warning

**Hazardous component(s) to be indicated on label:**

copper-dihydroxide

**Hazard statement(s)**

H410 Very toxic to aquatic life with long lasting effects.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.

**Hazard statements (EU)**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P391 Collect spillage.  
 P264 Wash hands thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear eye protection/face protection.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container to hazardous or special waste collection point.

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Mixture (preparation); Copper-dihydroxide 53,7% (WG)

**Hazardous ingredients**

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information Concentration	%
1	<b>copper-dihydroxide</b>			
	20427-59-2 243-815-9 029-021-00-3 01-2119969283-29	Acute Tox. 2; H330 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318	>= 50.00 - < 70.00	%-b.w.
2	<b>Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda</b>			
	- 939-368-0 - 01-2119969954-16	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT SE 3; H335	< 2.50	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10	-

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. In case of breathing difficulties give oxygen. Call a doctor immediately.

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Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Foam; Carbon dioxide; Extinguishing powder; Water spray jet

**Unsuitable extinguishing media**

No data available.

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

**5.3 Advice for firefighters**

Run-off water from fire fighting must not be discharged into drains or enter surface water. Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Keep away from ignition sources.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Avoid the formation and deposition of dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Do not inhale dust.

**Advice on protection against fire and explosion**

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Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Store product in closed containers.

### Incompatible products

None known; Do not store together with food, beverages and animal feeds

## 7.3 Specific end use(s)

### Industry solution

Always read the label and product information before use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Copper and compounds (as Cu) dusts and mists			
	WEL short-term (15 min reference period)	2	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	1	mg/m <sup>3</sup>

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name	CAS / EC no	
	Route of exposure	Exposure time	Effect
	Value		
1	copper-dihydroxide	20427-59-2 243-815-9	
	dermal		
	with reference to: solid		
	dermal		
	with reference to: slurry		
	inhalative		1 mg/m <sup>3</sup>
2	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	- 939-368-0	
	dermal	Long term (chronic)	systemic
			0.44 mg/kg/day
	inhalative	Long term (chronic)	systemic
			1.56 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic
			23.00 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local
			34.00 mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name	CAS / EC no	
	Route of exposure	Exposure time	Effect
	Value		
1	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	- 939-368-0	
	oral	Long term (chronic)	systemic
			0.22 mg/kg/day
	dermal	Long term (chronic)	systemic
			0.22 mg/kg/day
	inhalative	Long term (chronic)	systemic
			0.39 mg/m <sup>3</sup>

##### PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	copper-dihydroxide	20427-59-2 243-815-9	

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	water	fresh water	0.0078	mg Cu L-1
	water	fresh water sediment	87.1	mg Cu kg dwt-1
	water	marine water	0.0056	mg Cu L-1
	water	marine water sediment	676	mg Cu kg dwt-1
	soil	-	64.6	mg Cu kg dwt-1
	sewage treatment plant	-	0.23	mg Cu L-1
2	<b>Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda</b>		<b>- 939-368-0</b>	
	water	fresh water	0.2	mg/L
	water	marine water	0.02	mg/L
	water	Aqua intermittent	2.00	mg/L
	water	fresh water sediment	5.40	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.54	mg/kg
	with reference to: dry weight			
	soil	-	0.12	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	0.016	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile		
Material thickness	>	0.3	mm
Breakthrough time	>	480	min
Appropriate Material	rubber		
Material thickness	>	0.5	mm
Breakthrough time	>	240	min

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>
granules
blue-green
<b>Odour</b>
weak; non specific
<b>Odour threshold</b>
No data available

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<b>pH value</b>	
Value	6.0 - 9.0
Reference temperature	20 °C
Concentration	10 g/l
Method	CIPAC MT 75.3
<b>Boiling point / boiling range</b>	
Not applicable	
<b>Melting point / melting range</b>	
not determined	
<b>Decomposition point / decomposition range</b>	
Value	130 - 200 °C
Comments	Reference substance: copper dihydroxide, CAS 20427-59-2
<b>Flash point</b>	
Not applicable	
<b>Auto-ignition temperature</b>	
Value	258 °C
Method	EEC A16
<b>Oxidising properties</b>	
not oxidizing	
Method	EEC A17
<b>Explosive properties</b>	
Product does not present an explosion hazard.	
<b>Flammability (solid, gas)</b>	
The substance is not flammable.	
<b>Lower flammability or explosive limits</b>	
Not applicable	
<b>Upper flammability or explosive limits</b>	
Not applicable	
<b>Vapour pressure</b>	
Not applicable	
<b>Vapour density</b>	
Not applicable	
<b>Evaporation rate</b>	
Not applicable	
<b>Relative density</b>	
No data available	
<b>Density</b>	
No data available	
<b>Bulk density</b>	
Value	510 - 610 g/l
Method	CIPAC MT 186
Comments	loose
Value	660 - 760 g/l
Method	CIPAC MT 186
Comments	solid
<b>Solubility in water</b>	
Comments	dispersible
<b>Solubility(ies)</b>	

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No data available

**Partition coefficient: n-octanol/water**

No	Substance name	CAS no.	EC no.
1	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	-	939-368-0
log Pow		0.54	
Reference temperature		20	
Method		OECD 105	
Source		ECHA	

**Viscosity**

Not applicable

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

<b>Acute oral toxicity</b>			
No	Product Name		
1	Funguran progress		
LD50		>	2000 mg/kg
Species		rat	
Method		OECD 423	

<b>Acute dermal toxicity</b>			
No	Product Name		
1	Funguran progress		
LD50		>	2000 mg/kg
Species		rat	
Method		OECD 402	

<b>Acute inhalational toxicity</b>			
No	Product Name		
1	Funguran progress		
LC50		1.03	mg/l
Duration of exposure		4	h
State of aggregation		Dust/mist	
Species		rat	
Method		OECD 403	

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Skin corrosion/irritation	
No	Product Name
1	Funguran progress
Duration of exposure	4 h
Species	rabbit
Method	OECD 404
Evaluation	non-irritant

Serious eye damage/irritation	
No	Product Name
1	Funguran progress
Species	rabbit
Method	OECD 405
Evaluation	irritant

Respiratory or skin sensitisation	
No	Product Name
1	Funguran progress
Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Evaluation	Non-sensitizing

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	-	939-368-0
Species	mouse		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
with reference to	copper compounds		
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	-	939-368-0
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
with reference to	copper compounds		
Source	European Union Risk Assessment Report		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No	Substance name	CAS no.	EC no.
1	copper-dihydroxide	20427-59-2	243-815-9
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.



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<b>1</b>	<b>copper-dihydroxide</b>	<b>20427-59-2</b>	<b>243-815-9</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>			
No data available			
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>			
Irritating to eyes. Inhalation of dusts may irritate the respiratory tract.			

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
<b>No</b>	<b>Product Name</b>		
<b>1</b>	<b>Funguran progress</b>		
LC50		126	µg Cu/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
<b>No</b>	<b>Product Name</b>		
<b>1</b>	<b>Funguran progress</b>		
EC50		104.1	µg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
<b>Toxicity to Daphnia (chronic)</b>			
No data available			
<b>Toxicity to algae (acute)</b>			
<b>No</b>	<b>Product Name</b>		
<b>1</b>	<b>Funguran progress</b>		
ErC50		105	µg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
<b>Toxicity to algae (chronic)</b>			
No data available			
<b>Bacteria toxicity</b>			
No data available			

### 12.2 Persistence and degradability

<b>Biodegradability</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>copper-dihydroxide</b>	<b>20427-59-2</b>	<b>243-815-9</b>
Evaluation		Not applicable for inorganic substances.	
<b>2</b>	<b>Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda</b>	<b>-</b>	<b>939-368-0</b>
Type		DOC decrease	
Value		27	%
Duration		28	day(s)
Method	OECD 302 B		
Source	ECHA		
Evaluation	not readily biodegradable		

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Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	-	939-368-0
log Pow		0.54	
Reference temperature		20	
Method		OECD 105	
Source		ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available.

**12.7 Other information**

Other information
Do not allow to enter soil, waterways or waste water canal.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M7
Packing group	III
Hazard identification no.	90
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	copper-dihydroxide
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	copper-dihydroxide
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III

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UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Technical name	copper-dihydroxide
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E1
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**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products

**Annex III**

SP1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
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**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

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H302	Harmful if swallowed.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

**Department issuing safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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